

PI	JP 2000273319	A2	20001003	JP 1999-85654	19990329
	JP 2005206846	A2	20050804	JP 2005-113261	20050411
PRAI	JP 1999-85654	A3	19990329		

AB Synthetic resins having (1) carbonyl, carboxyl, phenolic OH, and/or sulfonic acid groups and (2) (un)substituted amino or N-containing heterocyclic groups form hydrogen bonds at least intermolecularly via the atomic groups, thus forming pseudocrosslinking structure. The pseudocrosslinked resins can exhibit contrary properties, such as high Tg and toughness. Me methacrylate 54.3, Bu acrylate 37.5, vinylpyridine 4.9, and acrylic acid 3.3 g were polymerized in PhMe in presence of lauroyl peroxide to give a polymer, which was dissolved in PhMe, applied on a glass sheet, and dried to form a film showing Tg 60°, total light transmittance 80%, tensile strength 93 MPa, and good bending processability.

IC ICM C08L101-02

ICS C08F212-08; C08F220-02; C08F246-00; C08G081-00; C08J005-00; C08L025-08; C08L033-00; C08L045-00; C08L061-06; C08L063-00; C08L067-06; C08L079-08

CC 37-6 (Plastics Manufacture and Processing)

ST vinylpyridine acrylic acid polymer pseudocrosslink

IT Polyesters, uses
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(aromatic, liquid-crystalline; pseudocrosslinked resins having contrary properties)

IT Polyamides, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aromatic; pseudocrosslinked resins having contrary properties)

IT Polyesters, preparation
Polyesters, preparation
Polysulfones, preparation
Polysulfones, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyamide-, aromatic; pseudocrosslinked resins having contrary properties)

IT Polyamides, preparation
Polyamides, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyester-, aromatic; pseudocrosslinked resins having contrary properties)

IT Polysulfones, preparation
Polysulfones, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyimide-, pseudocrosslinked resins having contrary properties)

IT Polyamides, preparation
Polyamides, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polysulfone-, aromatic; pseudocrosslinked resins having contrary properties)

IT Polyimides, preparation
Polyimides, preparation
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polysulfone-, pseudocrosslinked resins having contrary properties)

IT Gelation
Hydrogen bond
Liquid crystals, polymeric
Plastic films
(pseudocrosslinked resins having contrary properties)

IT Phenolic resins, preparation
Polyalkenamers
RL: IMF (Industrial manufacture); PRP (Properties); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(pseudocrosslinked resins having contrary properties)

IT Epoxy resins, uses
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(pseudocrosslinked resins having contrary properties)

IT Polyesters, uses